

JAEWONCNC

User's Manual

IROAD IONE-3300CH



Read user's manual carefully in order to protect the user's safety and ensure the accurate use of it.

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Product Warranty

Before using this product 1

Please read and be fully aware the manual before using for right use and safety for the user.

The product and the manual may change and upgrade for convenience of the user.

Please refer to the official website.

www.navinc.co.kr

Warranty and Limitation of Liability

The manufacturer is not responsible for any accident caused by violating the manual.

- Manufacturer is not responsible for any break-down, loss of data, and any other damage while using the product
- The purpose of this product is to record the situation of accident and damage, but it is not capable to record all situation
- Accidents including battery discharge, and fire caused by inferior attach and unofficial remodeling.

Caution

Please use only prescribed power source.

(It may cause any defect and danger of fire.)

* Please do not disassemble and remodel the product without professionals.

It may cause break-down and electric shock and in case of A/S service, it will be recorded as user's fault.

(If needed, please call the service center for A/S service.)

* In case of attaching other devices, please have a care to avoid any defect on power source. (It may cause danger of fire and shock.)

* Frequent connection with power source may cause malfunctioning, so please avoid frequent connection.

(the manufacturer is not responsible for any danger of fire and battery discharge caused by frequent connection.)

2 Caution

SD Card

Make sure that the power cable should be plugged off and LED should be turned off before you insert or remove the SD memory card in order to check the saved data in the SD card.

- Do not disassemble the SD card by force it can cause the damage to the product.
- Do not disconnect the SD card while the product activates. It can cause data corruption and damage of the SD card.
- Be advised to keep the SD card in the card case when you keep or move it, otherwise data can be corrupted by static electricity or external power voltage.
(Do not use the product at the place under a high-temperature, humidity and the possible corrosion)
- It is highly recommended to store the important data in HDD, CD or another external storage device.
- It is highly recommended to check the recorded data at least once a week and format the SD card once a month.
- The SD card is expendable item which is highly recommended to have regular check and back-up, life-time can be shorten by long time use and it causes the product malfunction and being unable to save any more video files in the SD card.
(If the SD card is to be inserted to the product after it is formatted, the folders will be automatically created and records and saves videos)

★ How to remove the SD card

Dabonda Gallery will be shut down by switching off the ignition or disconnecting the power cable from the product.

Make sure to follow the following order below when you insert or remove the SD card.

- SD card remove
 - 1. Switch off the ignition
 - 2. Make sure that the LED is turned off
 - 3. Remove the SD card if the LED is completely turned off
(Removing the SD card by force can cause damage of the product. The SD card will come out by a light press)
- Despite disconnecting power supply from Dabonda gallery, the product can record videos for 5 to 10 minutes.
- Insert the SD card
 - 1. Insert the SD card into the slot on the main unit.
 - 2. Switch on the ignition when the main unit is connected by cigarette power cable.
- Insert or remove the SD card when the power cable is disconnected.

Caution 3

How to use

Please make sure to follow guidelines below otherwise it can cause damage of the SD card or fires.



- Register your product at **JAEWONCNC Homepage(www.navinc.co.kr)** so as to have a fast A/S.
- Be advised to format a new SD card on PC for the first use.
- Being able to record Video for 5~10 minutes after the power supply cable is plugged off.
- Make sure to prevent **IROAD IONE-3300CH** from malfunctioning by staying under the shelter to escape direct light as the internal temperature of vehicle can jump up in summer season.
- Do not try to control the product while driving. Please make sure to control the product in safe environments.
- Do not touch the SD card or the product with oily or wet hands
- Do not insert impurities into the SD card slot on the product.
- Do not use water or volatile chemicals when you clean the product but use the soft and dry cloth.
- If the product is physically damaged or disconnected to power supply, the product cannot video-record and save data at all.
- Do not use dark tinting films on the vehicle window and remove impurities otherwise, it can disturb video-recording and result in degrade recording quality.
- Check video recordings to ensure that the camera angle is properly adjusted when you change location of the product.
- Contact your sales representative or A/S center immediately if there is any product malfunctions.
- Do not give the product violent force, otherwise it can cause damage of the product.
- Even though the product operates normal at the point of installation, the change of location can cause the product malfunction. Fix the product firmly on the spot and do not give it violent force to change the location of product.
- Do not use other SD cards rather than those are recognized authentic or recommended SD cards. The use of other SD cards can cause the product malfunction or the SD card malfunction.
- Do not disconnect SD card from the product or turn off the product or switch off the vehicle during firmware upgrade otherwise it can cause the SD card malfunction or a serious loss of data.
- Motion detection function can possibly cause the product malfunction by the different environments, weather and climate changes.

4 Product Features

IROAD IONE-3300CH is a Driving Recorder to be installed in the vehicle and record video and audio from front and rear in the vehicle. Consequently IONE-3300CH can possibly prove the evident video and audio of vehicle accident, damage, or physical conflicts between driver and passenger in the commercial vehicle. Fundamentally it induces the safe driving.

Real High-definition



- Front : Real HD 1280X720
- Rear : High quality video 640X480
- View Angle front : 110 ° , Rear : 120 °

External GPS



- It is possible to check the recorded GPS data in the exclusive PC viewer by connecting the external GPS to Dabonda Gallery.
- ▶ Optional Accessory

Motion Detection



- The Parking mode is changed into the Motion Detection mode in 10 minutes if no movement is detected by the G-sensor. Recorded video files are saved into the Parking Folder.
- Recording 10 seconds before motion detection and 20 seconds after motion detection
- This function can be operated using the Constant Power Supply.

3 Dimensional Sensor (G)



- Built-in 3G-Sensor can detect and record impact, acceleration, and deceleration (3 Axis-X,Y,Z)

Constant Recording and Event Recording



- Constant Recording: Every 60 seconds recording
- Event Recording : save video recording files in the Event Folder when it detects the impact.

Event Button



- It is possible to record and save video and audio immediately using the Event button.

Product Features 5

Audio Recording



- It is possible to playback video and audio as audio is recorded synchronized with video.

Firmware Update



- It is possible to upgrade the performance of the product by updating firmware in the SD card.
- ▶ For more information, visit www.hdblackbox.com

Parking-Mode function



- It can be efficient to save a large number of video files in a small memory space of SD card
- This function can be supported only using the Constant Power Supply.
- It is necessary to select the Parking-Mode if the user needs this mode.

Micro SD/ Format Function Support



- It is possible to playback video files in Smart phone, PMP, or other devices compatible with SD memory card.
- The saved video files are overwritten from the oldest video files.
- Built-in format function: in order to store the recorded data safely into the Micro SD card anytime and anywhere.
- Press the Event button about 5 seconds in order to format the Micro SD card.

Exclusive PC viewer



- It is possible to check video files, accident information and the recorded GPS data in the exclusive PC Viewer.

Backup battery / Voice announcement



- In case, power supply is disconnected, the last records can be safely stored as back-up power is supplied.
- It is possible to check the condition of device by the Voice Announcement.

6 Component

■ Box component



Main Unit and Mount Cradle



Rear Camera



Micro SD Card



Cigarette Power Cable
(12V ~ 24V)



Manual

■ Optional accessories



External GPS



Constant Power Cable



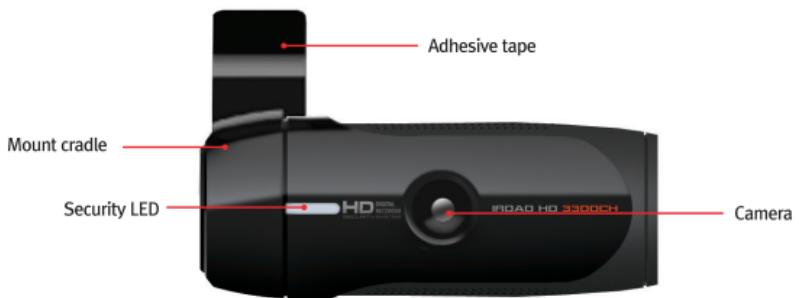
Video Cable



SD Card Reader

► The images of components can be different from the real and some of components can be changed by the situation of company.

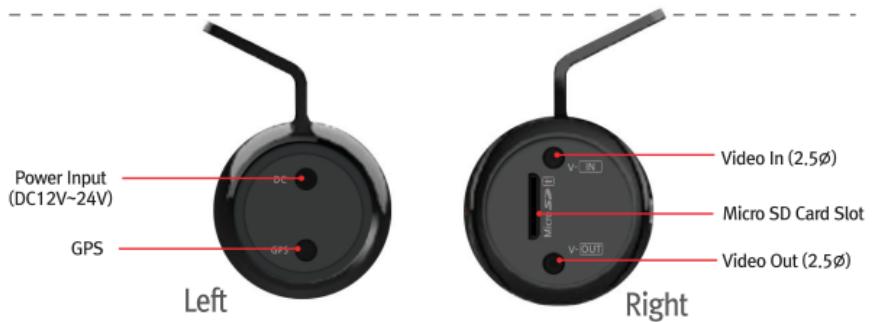
Name of product details 7



Front



Back



8 Product Specification

Product Specification				
	Spec.	1CH	2CH	note
Exterior	Color	Black		
	Channel(Main/Sub)	Front	Rear	
	Lens Angle(Main/Sub)	130°	120°	1.5 Mega
	Level of Illumination	Above 0.5 LUX.		
	Video In/out	AV IN / OUT (2.5pie)	-	NTSC / PAL
	LED	Built-in High Intensity LED	-	
	Function	Quick button support (Event, Mute, Own Format, Parking Mode)		
Device Specification	Resolution(Main / Sub)	1280 * 720 (HD)	640 * 480 (VGA)	
	Video Format	MPEG4 (H.264)		
	Frame	30fps / 20 : 10 (2 : 1)		
	Memory	Micro SD	SDHC 2GB ~ 32GB	
	Recording methods	Over Writing		
	Audio Recording	High Sensitive MIC built-in	Mute Support	
	Voice Output	Speaker	-	
	GPS	External Type	-	Location, time, speed support
	Time	Internal RTC	-	Automatic Synchronization when connecting with GPS
	G-Sensor	3 Axis Acceleration Sensor(X,Y,Z)	-	
	Operating Voltage	12 ~ 24V		
	Power Consumption	200mAh	60mAh	
	Operating Temp.	-20° ~ 80°		
	Storage Temp.	-25° ~ 85°		
Additional Function	Battery	Lithium Battery	-	Built-in
	Recording Mode	Constant/ Event or Manual/ Parking/ Detection		
	Normal Recording	Minutely Recording		
	Impact Recording	10 Sec. before Collision ~ 20 Sec. after Collision		
	Motion Recording	10 Sec. before motion detection ~ 20 Sec. after motion detection		
	PIP	PIP(AV out) Support		
	SD Format	Self-format function		
	Security	High-intensity Blue LED	Security	
	PC - Viewer	Exclusive PC Viewer	Win xp, Vista, Win7	
	F/W UPDATE	Firmware Update Support		

► The above product specification and function can be changed in order to improve the performance of product without prior notice.

Product Description 9

Connect the micro SD card which saves the recorded video files with Smart Phone or PC.

- There are three different folders and the explanations for each folder follow as below.

 EVENT (Impact)	 INFINITE (Constant)	 PARKING
20% of micro SD card space and overwrites at over-capacity	70% of micro SD card space and overwrites at over-capacity	10% of micro SD card and overwrites at over-capacity.

◎ Video file length in Micro SD card



60 seconds



60 seconds



60 seconds



60 seconds

◎ Total space of Micro SD card



MIN.90 minutes



MIN.360 minutes



- ▶ The value can be varied by the difference of the user's environment as the save system is variable save system.
- ▶ 4~8G SD card, above CLASS 4, 16G SD card, above Class 6, 32G SD card, above 10
- ▶ The Constant Power Supply Unit can shorten life time of SD card (3~6 month) Change the old SD card when it is used up.